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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/635,672	08/05/2003	Neal K. Bangerter	STFUP141/S03-037	1788
22434 7	590 10/05/2004	EXAMINER		
	AVER & THOMAS I	SHRIVASTAV, BRIJ B		
P.O. BOX 778 BERKELEY, CA 94704-0778			ART UNIT	PAPER NUMBER
			2859	
			DATE MAILED: 10/05/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

B	
V.	

	Application No.	Applicant(s)		
Office Action Summany	10/635,672	BANGERTER ET AL.		
Office Action Summary	Examiner	Art Unit		
	Brij B Shrivastav	2859		
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	el6(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONED	ely filed will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).		
Status				
1) Responsive to communication(s) filed on 19 Au	<u>ıgust 2004</u> .			
2a) ☐ This action is FINAL . 2b) ☑ This				
3) Since this application is in condition for allowan	nce except for formal matters, pro	secution as to the merits is		
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.		
Disposition of Claims				
4) ☐ Claim(s) 1-13 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1,2,11 and 12 is/are rejected. 7) ☐ Claim(s) 3-10 and 13 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.			
Application Papers				
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction of the original transfer of the correction is objected to by the Examiner	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority under 35 U.S.C. § 119				
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage		
Attachment(s)	_			
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:			

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DETAILED ACTION

1. Applicants' response dated August 9, 2004, and the declaration of invention are received and entered. Accordingly, Examiner withdraws the claim rejection dated July 15, 2004.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1, 2, 11 and 12 are rejected under 35 U.S.C. 102(b) as being anticipated by Vasanawala et al (US 6,307,368).

As regards to claim 1, Vasanawala et al teach a method of reducing artifacts in steady state free precession (SSFP) signals for use in magnetic resonance imaging, including the steps of applying a plurality of SSFP imaging sequences to an object to be imaged to acquire image data for each of said sequences (columns 4-9). Vasanawala et al further teach weighting the image data to emphasize higher signals, and combine the weighted data to establish an image signal based on the combined weighted image data (figures 4 and 8-11; column 4 and 5, lines 63-67 and 1-12, column 6 and 7, lines 25-64 and 1-59, column 8, lines 1-30; each of these figures show various ways of weighting the image data to establish an image signal).

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As regards to claims 2, 11 and 12, Vasanawala et al further teach use of phase-cycled SSFP imaging sequences, and having two and three dimensional sequences for imaging (column 7 and 8, lines 31-67 and 1-67, figures 12-14).

Allowable Subject Matter

- 3. Claims 3-10 and 13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Brij B Shrivastav whose telephone number is 571-272-2250. The examiner can normally be reached on 7 AM to 4 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Diego F. F. Gutierrez can be reached on 571-272-2245. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Bbs

September, 26, 2004

Brij B∥Shrivastav

Examiner